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| SENDER WILL CHECK CLASSIFICATION TOP AND BOTTOM | | | | | |
|---|---|---|---|---|---|
| | UNCLASSIFIED | | CONFIDENTIAL | XXXX | SECRET |

CENTRAL INTELLIGENCE AGENCY

# OFFICIAL ROUTING SLIP

| TO | NAME AND ADDRESS | DATE | INITIALS |
|---|---|---|---|
| 1 | Chief, UEB | 3/13/67 | |
| 2 | Chief, CEB | 13 Mar 67 | |
| 3 | EO/RECD/OL | 14 Mar 67 | WP. |
| 4 | DC/RECD/OL | 3/13/67 | DMH |
| 5 | C/RECD/OL | 13 Mar. 67 | |
| 6 | OL/RECD-Files | | |

| | | | | | |
|---|---|---|---|---|---|
| | ACTION | | DIRECT REPLY | | PREPARE REPLY |
| | APPROVAL | | DISPATCH | | RECOMMENDATION |
| | COMMENT | | FILE | | RETURN |
| | CONCURRENCE | | INFORMATION | | SIGNATURE |

**Remarks:**

cc to OC/Support.

FOLD HERE TO RETURN TO SENDER

| FROM: NAME, ADDRESS AND PHONE NO. | | | | DATE |
|---|---|---|---|---|
| [redacted] OL/RECD/UEB | | | | 3/13/67 |
| UNCLASSIFIED | | CONFIDENTIAL | XXX | SECRET |

25X1A

FORM NO. 2-61 237 Use previous editions

Approved For Release 2000/06/14 : CIA-RDP78-06505A000500040094-5

Approved For Release 2000/06/14 : CIA-RDP78-06505A000500040094-5

SECRET

13 MAR 1967

25X1A MEMORANDUM FOR THE RECORD

SUBJECT: TDY Trip to [redacted] with Reference to Air Conditioning Problem

25X1A

1. Purpose. [redacted], OL/RECD, was TDY during the period of 2 February to 18 February 1967. The purpose of the trip was to make a site investigation, recommend design criteria, and to determine an air conditioning system which would be acceptable to [redacted] and the Architect and Engineer for the [redacted] FE 25X1A 25X1C 25X1A Engineer, accompanied the undersigned during the investigation and attended some meetings held with [redacted] and the A&E. 25X1C 25X1A

2. Description of Facility. The Receiver building is a single-story structure built in 1959 and located near the entrance to [redacted] 25X1A 25X1A [redacted] The building has since been extended and new air conditioning system for each expansion. The original building was provided with a 30-ton central plant, direct expansion, single compressor, evaporative condensor, and with single duct multi-zone system. The subsequent building extension was provided with a 28-ton central plant, single compressor, air handling unit, and air-cooled condensor. The RF shielded room (additional extension to the building) is provided with a third machinery room to house direct expansion condensing units and chillers.

3. Present Situation. The existing air conditioning equipment cannot provide the reliability of service that is required for continuous operation of the facility. This is due to the use of single compressor systems, single air handling units for each system, age of equipment, 24-hour operation, and inadequate preventive maintenance. The air distribution is not properly located due to the relocation of the electronic equipment and yet the system cannot be shut down for relocation, nor can a contractor have access to all the areas, to permit the relocation of duct work.

4. Recommended Improvements. The attached Scope of Work presents three possible plans of varying reliability and cost. In the review and evaluation of these plans, the [redacted] A&E representatives, and the undersigned agreed on plans No. 1 and No. 2 as indicated in the Scope of Work. The two plans provide no interruption of operation and provides simplicity and reliability. 25X1C

GROUP 1
Excluded from automatic downgrading and declassification

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Approved For Release 2000/06/14 : CIA-RDP78-06505A000500040094-5

25X1A SUBJECT: TDY Trip to [redacted] with Reference to Air Conditioning Problem

5. Conclusion. The A&E representative informed the undersigned that he would proceed with design and cost estimate as soon as the [redacted] and [redacted] agreed on a contract. [redacted] is considering a negotiated type construction contract. Messrs. [redacted] OC, will be the contacting officers for this project. [redacted] will submit the preliminary estimate and partial drawings to the above contacting officers and forward to [redacted] and the undersigned for review in conjunction with the Office of Communications. As requested by OC personnel a limited time was spent on discussing the existing air conditioning deficiencies, preventative maintenance, and maintenance at the [redacted]. The task in determining an air conditioning system to alter the existing system at this stage proved to be very difficult. However, the excellent cooperation received from the Office of Communications' personnel simplified the task considerably.

25X1A 25X1A 25X1C 25X1C 25X1A 25X1C 25X1A 25X1A

[redacted]
OL/RECD/UEB

25X1A Distribution:
Original - OL/RECD Project
1 - OC/ES
1 - OL/RECD/UEB Chrono
2 - OC/P [redacted]

25X1A OL/RECD/UEB/[redacted]:ded
(13 March 1967)

25X1A
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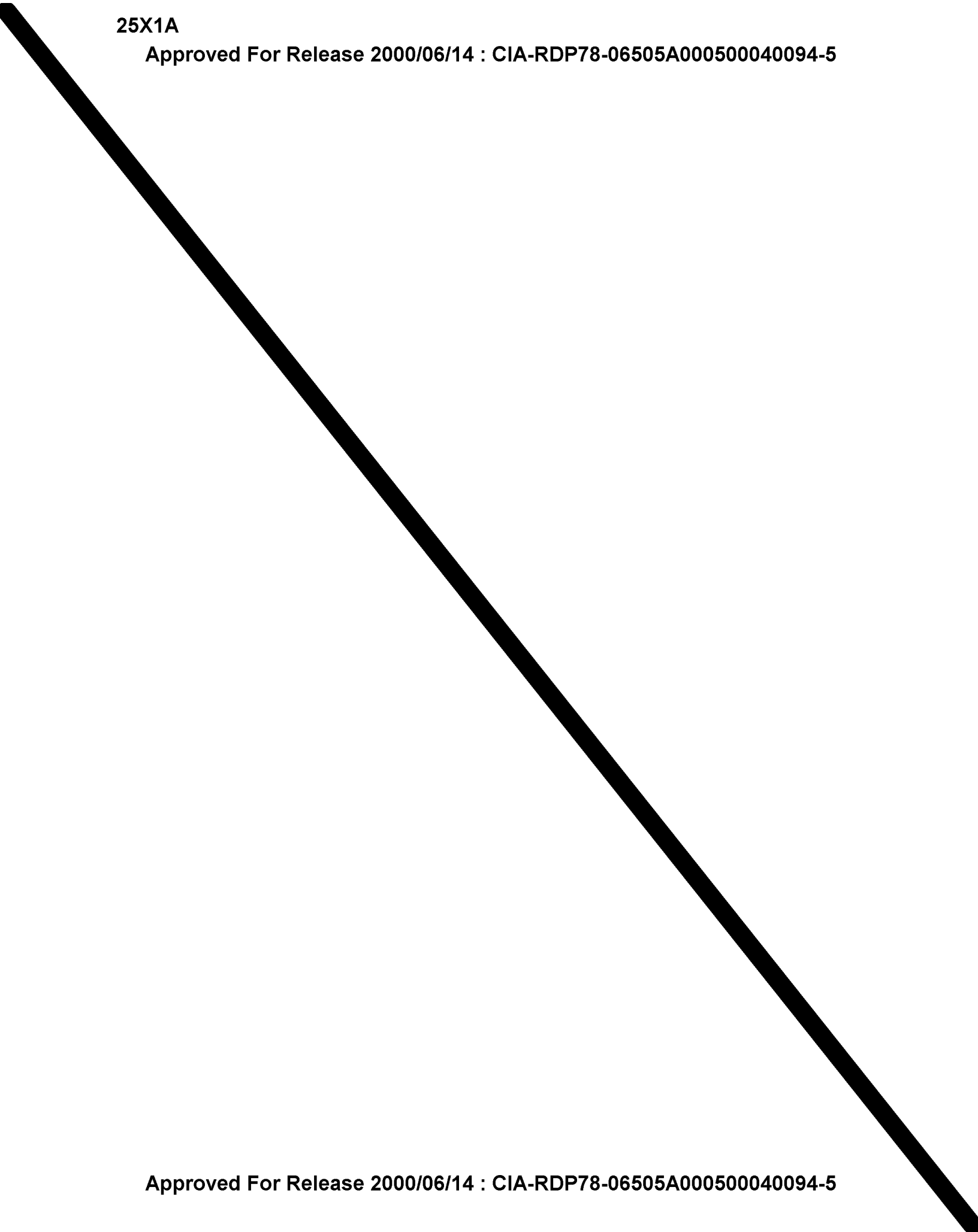

Approved For Release 2000/06/14 : CIA-RDP78-06505A000500040094-5

Approved For Release 2000/06/14 : CIA-RDP78-06505A000500040094-5

14 February 1967

25X1A [redacted]

SCOPE OF WORK

Prepare a cost estimate, complete working drawings, and specifications for new air conditioning systems and modifications to existing system throughout the Receiver Building.

The electronic equipment layout, the cooling requirements, and proposed and alternate air conditioning equipment layout has been submitted.

The plans and specifications for this project must be such as to permit the existing facility to remain in operation 24 hours a day, 7 days a week, while the new work is performed. No interruption of operations will be allowed due to modification activities unless approved by the Contracting Officer.

The system capacities shall be based on inside design conditions of 78 degrees F, D.B. and 65 degress W.B. Humidification is not required.

The cooling systems shall be designed for year-round operation and the proposed plans are as indicated on submitted drawings and as follows:

A. PLAN NO. 1

Install two packaged type water chillers in a new machinery room and pipe the chilled water to new chilled water coils in air handler No. 1, air handler No. 3, heat exchangers in shielded room, and to the new proposed air handlers.

The air-cooled condensers shall be located at ground level adjacent to the new machinery room. A decorative type wall to hide the condensers should be considered.

Each water chiller shall be provided with a minimum of three (3) compressors each individually circuited to provide a refrigerating effect of 45 tons. Thus the two units installed for series water flow (with by pass), will have a total capacity of 90 tons with two compressors as standby or as reserve capacity for future increase in electronic load.

Approved For Release 2000/06/14 : CIA-RDP78-06505A000500040094-5

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The two existing 3 ton chillers could remain as standby only. The chilled water supply to the heat exchangers will require filtering to remove particles greater than 0.02 mm.

Duct modification shall be made to provide the required air distribution supplied from air handler No. 1 and air handler No. 2 should No. 1 fail by means of remote damper control or automatic. Air handler No. 2 shall be used as standby only and shall be put in good running order after the new systems are in operation.

For full chilled water reliability the chilled water control should have a pressure switch to automatically start the standby chilled water pump.

B. PLAN NO. 2

This plan is the same as plan No. 1 with the exception of two additional chillers for No. 3 air handler and heat exchangers in the shielded room. The self-contained chillers will be approximately 15 tons each and two compressors each.

C. PLAN NO. 3

Provide two (2) new packaged chillers to be installed in the existing wooden structure and pipe the chilled water to new chilled water coils in air handler No. 1, new air handler No. 3, heat exchangers, and to a new air handler in the Repair Shop connected to the main duct header from air handler No. 2. This plan will require additional new duct for supply and return in area "D."

MISCELLANEOUS ITEMS

Provide floor or thru wall drains in each mechanical room.

All air filters shall be of the washable type.

Relocate thermostats where required.

The new exterior door to Machinery Room 116 shall be of the solid, metal clad type.

Provide power feeders if existing is inadequate.

Approved For Release 2000/06/14 : CIA-RDP78-06505A000500040094-5

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Air conditioning ducts or like openings in the secured areas shall be protected by steel rods 5/8 inches in diameter spaced horizontally and vertically to provide no more than 90 square inches opening. The bar ends must be imbedded in the masonry walls to a minimum depth of three inches.

Approved For Release 2000/06/14 : CIA-RDP78-06505A000500040094-5